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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/471,669	12/24/1999	JOHN P. ANDERSON	00228-US-NEW	7795	
20350 7590 06/22/2007 TOWNSEND AND TOWNSEND AND CREW, LLP			EXAMINER		
TWO EMBAR	TWO EMBARCADERO CENTER			WALICKA, MALGORZATA A	
EIGHTH FLO	OR SCO, CA 94111-3834		ART UNIT	PAPER NUMBER	
			1652		
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			06/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Astion Comments	09/471,669	ANDERSON ET AL.					
Office Action Summary	Examiner	Art Unit					
	Malgorzata A. Walicka	1652					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the state of the state of the state of the communication.  If NO period for reply is specified above, the maximum statutory period we railure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. tely filed the mailing date of this c (35 U.S.C. § 133).					
Status							
Responsive to communication(s) filed on  2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This  3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		e merits is				
Disposition of Claims							
4) ⊠ Claim(s) <u>See Continuation Sheet</u> is/are pendin 4a) Of the above claim(s) is/are withdraw 5) ⊠ Claim(s) <u>See Continuation Sheet</u> is/are allowed 6) ⊠ Claim(s) <u>130-137,178-182 and 335-338</u> is/are objected to.  8) □ Claim(s) are subject to restriction and/or	vn from consideration. d. rejected.		·				
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	• •				
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies</li> </ul>	s have been received. s have been received in Application ity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National	Stage				
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Attachment(s)	<del></del>						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te					

Continuation of Disposition of Claims: Claims pending in the application are 48,51-62,64-69,114-182,184-188,190-194,196-200,202-206,208-212,214-218,220-224 and 226-391.

Continuation of Disposition of Claims: Claims allowed are 48, 51-62, 64-69, 114-129,138-177,184-188,190-194, 196-200, 202-206, 208-212, 214-218, 220-224, 226-334 and 354-391.

In the amendment filed June April 10, 2997 is acknowledged. Claims 1-47 have been cancelled by the current amendment; claims 49-50, 63, 70-113, 183, 189,195, 201, 207, 213, 219 and 225 have been previously cancelled.

Claims 48, 53, 58, 64, 117, 125, 130, 133, 138, 141, 149, 154, 157, 165, 173, 190, 192, 196, 206, 208, 240, 259, 278, 286, 297, 304, 305, 306, 316, 335, 354 and 373 have been amended. Claims 48, 51-62, 64-69, 114-182, 184-188, 190-194, 196-200, 202-206, 208-212, 214-218, 220-224 and 226-391 are pending and under examination.

#### **Detailed Action**

# **Objections**

Objections to claim 130, 192, 206, 286, 304, and 306 made in the Office Action of Dec. 5, 2006 (previous action) are withdrawn, because of the amendments.

Claim 178, line 4, misses "under" before "conditions".

#### Rejections

## 35 U.S.C. 112, second paragraph

Claims 53-57, claim 64-69, claim 117-121, claim 125-129, 133-137, 141-145, 149 -153, 157-161, 165-169, 173-177, 240, 259, 278, 297, 316, 335, 354, 373 were rejected in the previous action as confusing as to whether the heterologous transfected cell is in a transgenic animal or it is an isolated heterologous cell, and because claims 335 and 354 were unclear as to the language of part (i). The rejection **is withdrawn**, because the claims have been amended.

Claims 130-137 are rejected as confusing, because SEQ ID NO: 63 is not a

sequence of a beta secretase. The proper number of the amino acid sequence recited

by claim 130 should be SEQ ID NO: 66; see claims 190-194 and 278-296 claiming other

subject matter related to DNA molecule encoding SEQ ID NO: 66.

35 U.S.C. 102

A. DNA molecules encoding beta secretase having amino acid sequence

shorter than SEQ ID NO: 2

A1. Claims 48, 51-57, 130-137, 138-145 and 154-161 were rejected as

anticipated by the US Patent 6, 420,534 issued to Gurney et al., with priority to the

provisional application 60/101,594 ('594) filed Sept. 24, 1998. This rejection is now

withdrawn, because the claims were amended by limiting their scope as examiner

suggested, to an isolated nucleic acid consisting of a nucleotide sequence encoding the

beta secretase consisting of SEQ ID NO: 43 (66, 67, and 69) or a perfectly

complementary sequence thereof.

Response to applicants' comment

In REMARKS, page 38/39, paragraph 2.3A, applicants state, "However, applicant

has further characterized the isolated nucleic acid by the recital encoding a beta

secretase to make clear that "consisting of" transition following nucleic acid applies to

the nucleic acid encoding a beta secretase and does not exclude the presence of

Application/Control Number: 09/471,669

Art Unit: 1652

unrelated (e.g. vector sequences) as are in fact recited to be present in dependent claims.

Claim 48 and parallel claims that are directed to SEQ ID NO: 66, 67 and 69 are allowed in their present form. However, the language of claim 48 does not include vector sequences in the scope of the claim. Claim 51, and the corresponding vector claims that are directed to vectors including SEQ ID NOs: 66, 67 and 69, are directed to an expression vector comprising the nucleic acid consisting of the sequence encoding beta secretase consisting of SEQ ID NOs: 43, 66, 67 and 69, and for that reason include vector nucleotides in their scope.

B. Method of producing a recombinant beta secretase shorter than SEQ ID NO: 2

Claims 58, 190, 196 and 208 were rejected in the previous action over Gurney et al as directed to a method of producing a recombinant beta-secretase enzyme by a cell transfected with a vector comprising a nucleotide sequence encoding the beta secretase consisting of SEQ ID NO: 43 (66, 67, 69). **This rejection is now withdrawn** because the claims have been amended.

### 35 USC 103

Heterologous cell comprising beta secretase DNA and beta secretase substrate

DNA

Claims 64-67 (SEQ ID NO: 43); 278-281 (SEQ ID NO: 66); 297-300(SEQ ID NO: 67); 335-338 (SEQ ID NO: 69) were rejected under 35 U.S.C. 103(a) as being unpatentable over Patent 6,420,534 issued to Gurney et al., with priority to the provisional application 60/101,594 ('594) filed Sept. 24, 1998 and a routine practice in the art of expressing enzymes in heterologous cells.

Rejection of claims 64-67 (SEQ ID NO: 43); 278-281 (SEQ ID NO: 66); 297-300 (SEQ ID NO: 67) is withdrawn, because the claims have been amended. Claim 335 has not been amended and claims 335-338 are still rejected.

Claims 339-353 are objected to as depending on claim 335 rejected under this paragraph.

Method of producing and purifying recombinant beta secretase shorter than SEQ ID NO: 2

Claims 61, 193, 199 and 211 were rejected under 35 U.S.C. 103(a) as being unpatentable over Patent 6,420,534 issued to Gurney et al., with priority to the provisional application 60/101,594 ('594) filed Sept. 24, 1998 and a routine practice of protein purification using affinity matrix, wherein affinity matrix contains antibodies having abilities to bind said protein. **Rejection of claims 61, 193, 199 and 211 is withdrawn** because the base claims 58, 190, 196 and 208 have been amended.

# Double patenting rejection

Claim 178-182 are rejected as being obvious over claim 168 of the allowed US patent application No. 11/090,399. Claim 168 is directed to a method of production of SEQ ID NO: 58 wherein the isolation of protein encompasses any method of isolating. Claims 178-182 of the instant application are directed to the same subject matter wherein the isolating the protein is achieved using affinity matrix, wherein the matrix contains beta secretase inhibitor of SEQ ID NO: 83, beta-secrase specific antibodies, and an antibodies specific for SEQ ID NO: 58. The method of isolating listed by claims 178-182 of the instant application are species of the genus of isolating methods recited by claim 168 of 11/090,399. All methods recited by claims 178-182 are disclosed in the specification of application No. 11/090,399. Thus using them for purification of SEQ ID NO: 58 would be obvious.

## Conclusion

The following claims are allowed:

48-69, 114-129, 138-177, 184-188, 190-200, 202-206, 208-212, 214-218, 220-224, 226-334, 354-391.

The following claims are rejected:

130-137, 178-182, 335-338,

The following claim are objected to:

339-353.

Application/Control Number: 09/471,669

Art Unit: 1652

As allowable subject matter has been indicated, applicant's reply must either

Page 7

comply with all formal requirements or specifically traverse each requirement not

complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Malgorzata A. Walicka whose telephone number is

(571) 272-0944. The examiner can normally be reached on Monday-Friday from 10:00

a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ponnathapura Achutamurthy, can be reached on (571) 272-0928. The fax

phone number for the organization where this application or proceeding is assigned is

571-273-8300.

Information regarding the status of an application may be obtained from the

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Malgorzata A. Walicka, Ph.D.

Art Unit 1652

**Patent Examiner** 

RECICOA E. PROUTY PRIMARY EXAMINER GROUP 1800